

Name of the Faculty: - **Dr. Aritri Laha (M.Sc., Ph.D.)**

Designation: - Assistant Professor, Department of Microbiology, School of Life Sciences, Swami Vivekananda University.

Publication Details:

1. **Laha, A.**, Sarkar, S., Sengupta, S., Das, A., Paul, S., & Bhattacharyya, S. (2024). Unraveling the potential of *Acinetobacter calcoaceticus* for arsenic resistance and plant growth promotion in contaminated lentil field. *South African Journal of Botany*, 168, 61-70.
2. **Laha, A.**, Sengupta, S., Bhattacharyya, S., Bhattacharyya, K., & GuhaRoy, S. (2024). Isolation and characterization of rhizobacteria from lentil for arsenic resistance and plant growth promotion. *3 Biotech*, 14(1), 1-13.
3. Sengupta, S., Patra, S. K., **Laha, A.**, Poddar, R., Bhattacharyya, K., Dey, P., & Mandal, J. (2023). Replacing conventional surface irrigation with micro-irrigation in vegetables can alleviate arsenic toxicity and improve water productivity. *Groundwater for Sustainable Development*, 101012.
4. **Laha, A.**, Sengupta, S., Bhattacharya, P., Mandal, J., Bhattacharyya, S., & Bhattacharyya, K. (2022). Recent advances in the bioremediation of arsenic-contaminated soils: a mini review. *World Journal of Microbiology and Biotechnology*, 38(11), 1-15.
5. **Laha, A.**, Bhattacharyya, S., Sengupta, S., Bhattacharyya, K., and GuhaRoy, S. (2021). Investigation of arsenic-resistant, arsenite-oxidizing bacteria for plant growth promoting

traits isolated from arsenic contaminated soils. *Archives of Microbiology*. 203, 4677–4692.

6. **Laha, A.**, Bhattacharyya, S., Sengupta, S., Bhattacharyya, K., & GuhaRoy, S. (2021) *Rhizobium Leguminosarum*: A Model Arsenic Resistant, Arsenite Oxidizing Bacterium Possessing Plant Growth Promoting Attributes. *Curr World Environ* 16(1).
7. **Laha, A.**, Bhattacharyya, S., Sengupta, S., Bhattacharyya, K., & GuhaRoy, S (2021). Study on Burkholderia sp: Arsenic Resistant Bacteria Isolated from Contaminated Soil. *Applied Ecology and Environmental Sciences*, 9, 144- 148.
8. Banerjee, H., Das, T. K., Ray*, K., **Laha, A.**, Sarkar, S., & Pal, S. (2018). Herbicide ready mixes effects on weed control efficacy, non-target and residual toxicities, productivity and profitability in sugarcane–green gram cropping system. *International Journal of Pest Management*, 64(3), 221-229.
9. **Laha, A.**, Bhattacharyya, S., Mandal, G. S., Roy, S. G., & Pal, S. (2018). Isolation and Characterization of Plant Growth Promoting Arsenic-resistant Bacteria and Possible Application in Bioremediation in West Bengal. *International Journal of Bioresource Science*, 5(1), 51-60.
10. **Laha, A.**, Bhattacharyya, S., Guharoy, S., & Pal, S. (2019). *Scholars Journal of Agriculture and Veterinary Sciences*.
11. **Laha, A.**, Bhattacharyya, S., Guharoy, S., & Pal, S. (2020). Identification of arsenic tolerant bacteria from arsenic polluted field of West Bengal. *Wesleyan Journal of Research* (13).
12. Das, D., Mandal, K., Bose, S.K, Chakraborty, Mistri, G., **Laha, A.**, Ghosh, S.,

Aquatic Plants in phytoremediation of contaminated water: Recent knowledge and future prospects. *Journal of Advanced Zoology*.

13. Bhattacharya, T., Ghosh, K., **Laha, A.**, & Pal, P. (2023). STUDY OF ACUTE ARSENICTOXICITY ON A GLOBAL SCENARIO. *Journal of Survey in Fisheries Sciences*, 10(1S), 6442-6448.
14. Ghorui, A., Pal, S., Pal, S., Ghosh, K., & Dutta, U. **Laha, A** (2023). Cadmium (Cd) Resistant Bacteria. *Journal of Survey in Fisheries Sciences*, 10(1S), 6463-6469.
15. Pal, S., Ghosh, K., & Ghorui, A. **Laha, A** (2023). Potential of plant growth promoting bacteria to alleviate chromium pollution. *Journal of Survey in Fisheries Sciences*, 10(1S), 6454-6462.
16. Ghosh, K., Pal, S., Das, D., Ghosh, S., **Laha, A.** (2023). The Significance of Nanomaterials In Enhancing Soil Microbial Community Short Review. *Journal of Advanced Zoology*,(44).
17. Datta, S., Sinha, A., Saha, A., Sardar, S., Bhattacharya, P., **Laha, A.**(2023). Phosphate Solubilizing Bacteria: A Promising Approach For Improving Phosphorus In Agricultural Soils.*Journal of Advanced Zoology*,(44).
18. Pal, S., Ghosh, K., Das, **Laha, A.** (2023). Importance of PGPR in organic farming A Short Review. *Journal of Advanced Zoology*,(44).
19. Mandal, S., Chakraborty, A., Ghosh, S., **Laha, A.** (2023) Role Of Algae-Bacterial Consortium In Heavy Metal Contaminated Water Treatment. *Journal of Advanced Zoology*, (44).

20. Mandal, K., Das, D., Bose, S.K., Chakraborty, A., Mistri, G., Acharya, J., **Laha, A.** (2023).

Ghosh, S. Ornamental Plant in phytoremediation of contaminated soils: Recent progress and future directions. *Journal of Advanced Zoology*, (44).

21. Das, D., **Laha, A.** (2023).

Utilizing Nanomaterials Linked with Plant Growth-Promoting Bacteria For Agricultural Advancements A Short Review. *Journal of Advanced Zoology*, (44).

22. Saha, S., Maity, A., **Laha, A.** (2023).

Phosphorus Solubilizing Microbes: Propitious Strategy For Biofertilization. *Journal of Advanced Zoology*, (44).

23. Bose, S.K., Chakraborty, A., Mandal, K., Das, D., Mistri, G., Kar, S., **Laha, A.**, Ghosh, S. (2023) A review on phytoremediation capability of *Tagetes erecta* Linn. against heavy metals. *Journal of Advanced Zoology*, (44).

24. Sadhu, P., Sarkar, S., **Laha, A.**, Ghosh, S., Ghosh, B., Sarkar, S., (2023).

Oncolytic Viral Nanoparticles: A Combination Of Targeted And Immunotherapeutic Approach For Cancer Treatment: A Review. *Journal of Advanced Zoology*, (44).

25. Pal, S., Ghosh, K., **Laha, A.** (2023).

Application Of Metagenomics In Agriculture. *Journal of Advanced Zoology*.

26. Chakraborty, A., Mandal, S., Mandal, K., Das, D., Bose, S.K., **Laha, A.**, Ghosh, S.

Potential Approach Of Mushrooms In Bioremediation –A Short Review. *Journal of Advanced Zoology*, (44).

27. Pal, S., Ghosh, K., **Laha, A.** (2023).

Application Of Metagenomics In Agriculture. *Journal of Advanced Zoology*, (44).

28. Dutta, E., Ghosh, K., Pal, S., **Laha, A.** (2023).

The importance of microbes in plastics degradation: A sustainable approach A Short Review. *Journal of Advanced Zoology*, (44).

29. Mistri, G., Mandal, K., Das, D., Kundu, S., Ghosh, S., **Laha, A.(2023).**

Importance Of PGPR (Plant Growth Promoting Rhizobacteria) For Sustainable Agricultural Production. *Journal of Advanced Zoology*,(44).

30. Sutradhar, B.D., Ghosh, K., Halder, S., Sarkar, S., **Laha, A. (2023).**

Revitalization Of Plant Growth Promoting Rhizobacteria As An Effective Bioinoculant To Enhance The Growth, Production, And Stress Tolerance Of Vegetable Crops. A Short Review. *Journal of Advanced Zoology*,(44).

31. Dutta, U., Jyote, S., Ghosh, K., Pal, S., Sengupta, S., **Laha, A.(2023).**

Bioremediation Of Contaminated Environments Through Mycology: A Review Of Current Advancements And Future Prospects A Short Review. *Journal of Advanced Zoology*,(44).
Book Chapter

1. **Laha, A.**, Sengupta, S., Mandal, J., Bhattacharyya, K., & Bhattacharyya, S. (2023). The Role of Plant Growth Promoting Bacteria on Arsenic Removal: A Review of Existing Perspectives. In *Arsenic Toxicity Remediation: Biotechnological Approaches* (pp. 3-14). Cham: Springer Nature Switzerland.

2. **Laha, A.**, Sengupta, S., Mandal, J., Bhattacharyya, K., & Bhattacharyya, S. (2023). The Journey of Arsenic from Soil to Plant. In *Arsenic Toxicity Remediation: Biotechnological Approaches* (pp. 3-14). Cham: Springer Nature Switzerland.

3. Ghosh, S., **Laha, A.**, Paul S., Sarkar S. (2023) NANOBIO TECHNOLOGY: A POTENTIAL HOPE FOR FOOD PACKAGING. FRONTIERS IN BIOTECHNOLOGY: EMERGING APPROACHES AND STRATEGIES

4. Paul S., **Laha, A.**, Ghosh, S. (2023) INTRODUCTION OF INTUITIVE WORLD OF MICROBIOLOGY. Microbiome: Principal and Exploration.

5. Sarkar S., **Laha, A.**, Ghosh, S., Paul S. (2023) MICROBES IN AIR: THEIR EXISTENCE AND HEALTH ISSUES. Microbiome: Principal and Exploration.
6. **Laha, A.**, Ghosh, S., Paul S., Sarkar S., (2023) BIOREMEDIATION OF HEAVY METALS BY MICROORGANISMS. Microbiome: Principal and Exploration.